



## MISSION SUCCESS STARTS with SAFETY... and OSSMA

To learn more about OSSMA,  
Visit our website:  
<http://ossma.gsfc.nasa.gov>

### Office of Systems Safety and Mission Assurance

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### Systems Review Office (SRO)

Conducts a series of formal, fully independent reviews on each GSFC mission to evaluate and provide recommendations concerning the design, development, and testing of the flight and group segments.

### Systems Safety and Reliability Office (SSRO)

Provides expert technical support and consultation to all GSFC flight projects in the areas of systems safety and reliability.

### Assurance Management Office (AMO)

Establishes and manages the project implementation of mission assurance programs for all GSFC missions.

### Systems Assurance and Technology Office (SATO)

Provides support in systems and software assurance, methodologies, implementation, and research.

### Resource Analysis Office (RAO)

Provides authoritative and independent cost, schedule, and workforce assessments of missions, new starts, and proposals in support of Center Management.



National Aeronautics and  
Space Administration



Explore. Discover. Understand.

Office  
of  
Systems  
Safety  
and  
Mission  
Assurance

Goddard Space Flight Center  
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## MISSION

The Office of Systems Safety and Mission Assurance (OSSMA) is committed to ensuring the highest probability of mission success.



OSSMA is responsible for the overall management and implementation of GSFC policy in the areas of systems safety and mission assurance. OSSMA supports GSFC's programs and projects by:

- Fostering early integration and life cycle implementation of safety, reliability, and quality assurance
- Ensuring flow-down of Agency assurance requirements to GSFC programs and projects
- Providing independent insight into issues and risks
- Certifying compliance with safety and mission assurance requirements
- Publishing a Flight Readiness Report that documents the readiness of the project and any remaining risks



## WHO WE ARE

OSSMA employs technical experts from many disciplines:

- Systems Assurance Managers
- Hardware and Software Quality Engineers
- Project Safety Managers
- Reliability Engineers
- Systems Review Managers
- Operations Research Analysts
- Process Engineers
- Software Engineers



## KEY ACTIVITIES

- Develops and implements Mission Assurance programs to ensure the quality of the hardware and software
- Implements Systems Safety programs to assist GSFC missions in safely achieving mission success
- Performs Failure Modes and Effects Analyses, Fault Tree Analyses and Probability Risk Assessments in evaluating probability of mission success
- Conducts design and readiness reviews of spacecrafts, launch vehicles, scientific instruments, and mission operations
- Independently reports anomalies, non-conformances, and overall status to GSFC Management
- Provides support in software assurance methodologies, implementation, and research
- Evaluates new and emerging EEE parts technologies to assess their readiness for incorporation into future, as well as existing, NASA systems.
- Coordinates the Government Industry Data Exchange Program (GIDEP)
- Manages the Agency's Supplier Assurance Program, which provides oversight/insight of prime and sub-tier contractors
- Provides authoritative predictions of cost, workforce, and resources necessary to ensure mission success

